

Patents Recently Issued to IBM Inventors

November and December 1970

November 1970

3,537,171	Method of Molding Vertical Bosses.....	D. T. Wilson and R. T. Young
3,537,562	Coil Spring Non-repeat Keylever Dobber.....	A. H. Caudill and W. Goff, Jr.
3,537,564	Memory Backspace Device for Printing Apparatus.....	J. M. Huckabee
3,537,854	Holographic Method for Generating Masking Patterns.....	A. W. Grobin, Jr., J. L. Reynolds, R. S. Schools and G. T. Sincerbox
3,537,892	Metallizing Composition Conductor and Method.....	S. A. Milkovich and L. F. Miller
3,538,590	Method and Apparatus for Selecting Interfitting Parts for Assembly.....	S. Bederman and L. G. Lankford
3,538,828	High Resolution Multiple Image Camera.....	F. C. Genovese
3,539,004	Handling and Testing Miniature Magnetic Elements.....	G. O. Baker, R. H. Cadwallader and C. P. Marinelli
3,539,097	Electro-mechanical Actuator.....	G. N. Baker, D. O. Castrodale and R. E. Schopp
3,539,238	Multiple Cover Control and Latch Assembly.....	H. Kruspe and W. E. Mott
3,539,382	Film of Magneto-optical Rare Earth Oxide Including Method Therefor.....	K. Y. Ahn and M. W. Shafer
3,539,725	Automatic Frequency Shaping Network.....	G. A. Hellwarth and G. D. Jones, Jr.
3,539,739	Connector Assembly.....	R. R. Boggs, Jr.
3,539,759	Susceptor Structure in Silicon Epitaxy.....	A. Spiro and W. H. White
3,539,777	Data Sensing System.....	W. S. Rohland
3,539,826	Active Variable Impedance Device for Large Signal Applications.....	W. G. Crouse
3,539,828	Frequency Discriminator-Detector for Data Transmission System of the Frequency Shift Keying Type.....	M. P. Langendorf and W. H. Sebastian
3,539,829	Tone Detection Circuit.....	I. Feinberg, J. L. Langdon and C. L. Stiller
3,539,876	Monolithic Integrated Structure Including Fabrication Thereof.....	P. P. Tong
3,539,893	Hybrid Motor Control Circuit for Providing Improved Speed Regulation....	W. W. Hardin and R. J. Norman
3,539,993	High Speed Registration Technique for Position Code Scanning.....	G. L. Clapper
3,539,994	Adaptive Template Pattern Categorizing System.....	M. W. Bee, D. J. Lang and A. D. Snyder
3,539,996	Data Processing Machine Function Indicator.....	R. J. Houldin, R. J. Sippel and J. T. Zahorsky
3,539,999	Control Unit for Multiple Graphic and Alphanumeric Displays.....	D. L. Bencher
3,540,000	Criss-cross Sorting Method and Means.....	G. L. Clapper
3,540,002	Content Addressable Memory.....	R. W. Murphy
3,540,003	Computer Monitoring System.....	R. W. Love
3,540,031	Character Code Translator.....	T. N. Criscimagna and D. J. Hinkew
3,540,032	Display System Using Cathode Ray Tube Deflection Yoke Non-linearity to Obtain Curved Strokes.....	J. K. Crawford, D. C. Croll, J. C. Hulsizer, F. T. Kendall and G. B. Schaeffer
3,540,033	Data Display System.....	H. Ottesen
3,540,037	Time Shared Bipolar Analog-to-digital and Digital-to-analog Conversion Apparatus.....	R. V. Davidge and R. A. Kolpek
3,540,133	Audio Visual Teaching Machine.....	R. A. Deuell, G. W. May, A. E. Oldaker, T. J. Rajac and C. O. Sage
3,540,180	Article Loading Apparatus.....	J. P. Anderson
3,540,427	Electro-optic Array and Method of Making Same.....	R. F. Hanft and S. A. Okcuoglu
3,540,565	Universal Tab Member.....	K. M. Kusanke, W. W. Kulcke and E. Max
3,540,794	Multi-layer Digital Light Deflector.....	T. J. Harris
3,540,795	Achromatic Compensation Apparatus Using Polarization Rotation and Birefringent Elements.....	R. E. Tibbetts and J. S. Wilczynski
3,540,800	Large Field Reduction Lens System.....	B. L. Flur and A. J. Griest
3,540,864	Magnetic Composition.....	C. M. McIntosh
3,540,894	Eutectic Lead Bisilicate Ceramic Compositions and Fired Ceramic Bodies...	M. R. Lorenz and A. Onton
3,540,941	Method of Heat Treating Semiconductor Electroluminescent Devices.....	E. G. Nassimbene
3,541,272	Reproduction System with Tape Controlled Cyclic Reproduction of Only a Fixed Record Portion.....	G. Ruby
3,541,308	Automated Parking Facility.....	C. V. Freiman and M. E. Homan
3,541,317	Parallel Addition and Division of Two Numbers by a Fixed Division.....	W. L. Duda, H. Fleisher and J. L. Reynolds
3,541,338	Positioning System.....	P. Abramson
3,541,348	"Up to M Out of N" Logic Circuit.....	

3,541,350	Simulated Diode Circuit.....	W. O. Luetze
3,541,352	Variable Delay Pulse Generator.....	J. F. Merrill and H. R. Stirling
3,541,396	Support Frames for Planar Circuit Boards.....	W. R. Cardwell, L. E. Johnson, D. E. Lowry, P. L. O'Brian and D. C. Shattuck
3,541,400	Magnetic Field Controlled Ferromagnetic Tunneling Device.....	L. Esaki, P. J. Stiles and S. von Molnar
3,541,401	Space Charge Wave Amplifiers Using Cathode Drop Techniques.....	J. B. Gunn
3,541,418	Proportional Damping for Motor Drive.....	G. J. Agin and G. Melnyk
3,541,441	Test System for Evaluating Amplitude and Response Characteristics of Logic Circuits.....	J. Hrustich
3,541,470	Dye Laser.....	J. R. Lankard and P. P. Sorokin
3,541,507	Error Checked Selection Circuit.....	K. A. Duke
3,541,516	Vector Arithmetic Multiprocessor Computing System.....	D. N. Senzig
3,541,518	Data Handling Apparatus Employing an Active Storage Device with Plural Selective Read and Write Paths.....	K. A. Bell, R. J. Klotz, D. E. Wallis and K. K. Womack
3,541,520	Time-sharing Arrangement.....	A. P. Mullery and G. C. Driscoll
3,541,524	Time Division Communications Processor.....	H. L. Blasbalg, R. A. D'Antonio and H. F. Najjar
3,541,528	Implicit Load and Store Mechanism.....	B. Randell
3,541,529	Replacement System.....	R. A. Nelson
3,541,530	Pulsed Power Four Device Memory Cell.....	D. P. Spampinato and L. M. Terman
3,541,533	Gate Circuit and System.....	A. J. Wolterman
3,541,547	Code Converter.....	P. Abramson and H. Y. Juliusburger
3,542,305	Self-positioning Reel Latching Apparatus.....	L. B. Feierabend
3,542,448	Holographic Recording and Readout of Digital Information.....	J. L. Reynolds, R. S. Schools and G. T. Sincerbox
3,542,550	Photosensitive Glass Technique for Forming Contact Holes in Protective Glass Layers.....	E. E. Conrad, R. P. Esch, R. L. Hallen, R. A. Leonard and W. A. Pliskin
3,543,010	Coefficient Tuning Methods for Process Control Systems.....	E. B. Dahlin
3,543,068	Commutator Brush Assembly.....	G. A. Fisher, A. M. Guzman, J. P. Harris and P. Y. Hu
3,543,108	System for Measuring the Time Interval Between Two Non-repetitive Pulses...	C. A. Collins, J. E. Evans, P. C. Furois and G. H. Lowe
3,543,238	Raster Scanning Apparatus Which Provides an Output Corresponding to a Scan Along Only a Few Predetermined Lines.....	H. Schade
3,543,242	Multiple Level Priority System.....	R. L. Adams, Jr. and G. W. Kurtz
3,543,246	Priority Selector Signalling Device.....	R. L. Adams, Jr.
3,543,296	Data Storage Cell for Multi-stable Associative Memory System.....	P. A. Gardner, M. H. Hallett and P. J. Titman
December 1970		
3,543,522	Finishing Process for Metallic Surfaces.....	C. J. Guenther
3,543,921	Container with External Shock Absorbing Structure.....	T. Bradley
3,543,922	Container with External Shock Absorbing Structure.....	R. J. Charlton
3,543,926	Card Reader Employing Stacker with Offset Memory.....	E. C. Campbell
3,544,191	Optical Fiber Focusing Device for Optical Instruments.....	H. R. Rottmann
3,544,219	Optical Computation of Second Derivative.....	O. Bryngdahl
3,544,712	Multiplexed Digital Flyback Control of CRT Displays.....	L. R. Adams, K. G. Beaman, L. E. Handloff, T. P. Harvey and J. F. Kevill
3,544,732	Magnetic Transfer System with Pneumatic Means for Maintaining Tape Contact.....	R. A. Bauer and E. H. Storm
3,544,812	Analog Multiplier.....	V. Riso
3,544,865	Rectifying Ferromagnetic Semiconductor Devices and Method for Making Same.....	F. Holtzberg and S. von Molnar
3,544,966	Method and Apparatus for Multiplex Control of a Plurality of Peripheral Devices for Transfer of Data with a Central Processing System.....	J. J. Harmon
3,544,974	Data Processing System Including Buffered Operands and Means for Con- trolling the Sequence of Processing of Same.....	K. G. Tan
3,544,979	Deskewing of Data Read from an Incrementally Driven Tape.....	E. G. McDonald, Jr. and W. R. Hahs
3,544,994	Digital to Analog Converter.....	C. C. Hanson, J. P. Ho and L. P. Segar
3,545,969	Method of Inducing an Electrostatic Charge Pattern on an Insulating Surface..	C. E. Herrick, Jr.
3,546,013	Method of Providing Protective Coverings for Semiconductors.....	J. A. Perri and J. Riseman
3,546,537	Multiphase Power Failure Detection Circuit.....	W. L. Jump and J. L. Quanstrom
3,546,582	Computer Controlled Test System for Performing Functional Tests on Monolithic Devices.....	J. D. Barnard, C. C. Gaito, G. R. Giedd, T. G. Greene, J. W. Lind, M. H. Perkins and C. M. Pross

3,546,671	Apparatus for Determining One or More Geometrical Properties.....	<i>H. E. Rogert and J. H. Shanis</i>
3,547,245	Multiple Pitch Margin Control.....	<i>S. A. Okcuoglu and G. A. Walker</i>
3,547,262	Apparatus for Sorting Miniature Components.....	<i>R. T. Adsmund and H. P. Byrnes</i>
3,547,513	Split Field Optical Comparison System.....	<i>L. S. Sheiner</i>
3,547,604	Functional Components.....	<i>E. M. Davis, Jr. and A. H. Mones</i>
3,547,708	Surface Finish and Dimension Controlled and Parallel Faceted Semiconductor Crystals and Growing Process.....	<i>T. H. Strudwick</i>
3,547,716	Isolation in Epitaxially Grown Monolithic Devices.....	<i>D. De Witt, H. R. Gates and A. Platt</i>
3,548,176	Probable Future Error Detector.....	<i>W. F. Shutler</i>
3,548,177	Computer Error Anticipator and Cycle Extender.....	<i>W. E. Hartlipp, H. G. Healy, A. S. Ruggiero and W. F. Shutler</i>
3,548,178	Computer Error Anticipator.....	<i>R. J. Carnevale, J. E. Curran, G. J. Dohanich, Jr., J. F. O'Donnell, W. H. Speer, G. A. Trudgen and L. J. Wallace</i>
3,548,202	Adaptive Logic System for Unsupervised Learning.....	<i>E. R. Ide, M. P. Marcus and C. J. Tunis</i>
3,548,274	Stepping Motor Speed Control.....	<i>J. Mako</i>
3,548,327	System for Detection of Digital Data by Integration.....	<i>J. C. Vermeulen</i>
3,548,333	Differential Amplifier.....	<i>E. P. Bakke, A. B. Benson and R. J. Bymers</i>
3,548,342	Digitally Controlled Amplitude Modulation Circuit.....	<i>H. D. Maxey</i>
3,548,385	Adaptive Information Retrieval System.....	<i>C. J. Tunis</i>
3,548,386	Associative Memory.....	<i>A. W. Bidwell and A. Weinberger</i>
3,548,388	Storage Cell with a Charge Transfer Load Including Series Connected FETs...	<i>G. Y. Sonoda</i>
3,548,391	Sense-inhibit Winding for Magnetic Memory.....	<i>D. J. Perlman</i>
3,548,491	Mass Production of Electronic Devices.....	<i>N. G. Ainslie, D. S. Chhabra, D. W. Jepsen and W. E. Mutter</i>
3,549,358	Electrophotographic Process Using Organic Photoconductors Having at Least Two Chromophores.....	<i>N. Clecak and R. J. Cox</i>
3,549,368	Process for Improving Photoresist Adhesion.....	<i>R. H. Collins and F. T. Deverse</i>
3,549,401	Method of Making Electroluminescent Gallium Phosphide Diodes.....	<i>L. J. Buszko, L. M. Foster and M. R. Lorenz</i>
3,549,417	Method of Making Isoocervic Magnetic Alloy Coatings.....	<i>J. S. Judge, J. R. Morrison and D. E. Speliotis</i>
3,549,821	Tone Actuated Dictation Systems with Voice Buffer.....	<i>M. P. Langendorf and C. L. Ridings</i>
3,550,113	Current Mode Analog-to-digital Converter.....	<i>L. L. Williams</i>
3,550,133	Automatic Channel Apparatus.....	<i>L. E. King, W. C. Hoskinson, E. J. Annonziata, E. B. Pierce and F. W. Wise</i>
3,550,154	High Density Magnetic Transfer.....	<i>G. Bate</i>
3,550,325	Apparatus for Providing a Finished Surface on Workpieces.....	<i>J. R. Hause, F. E. Goetz, P. R. Druzba, Jr. and G. Seeley</i>
3,550,630	Serial-to-parallel Hydraulic Device.....	<i>H. A. Panissidi</i>
3,550,878	Digital Position Detection and Velocity Compensation System.....	<i>J. M. Crisp and R. W. van Pelt</i>
3,551,023	Pathology Specimen Processing Method and Article.....	<i>D. W. Brackett</i>
3,551,056	Apparatus for Automatically Measuring the Thickness of Transparent Films on Silicon Wafers.....	<i>J. R. Fay and J. P. Stinson</i>
3,551,115	Apparatus for Growing Single Crystals.....	<i>J. E. Jamieson and T. H. Strudwick</i>
3,551,116	Process for Preparing Low Resistivity, High Purity Gallium Arsenide.....	<i>J. M. Woodall and W. C. Wuestenhoefer</i>
3,551,160	Method of Preparing Photosensitive Poly (2-Chloro-1, 3-Butadiene).....	<i>P. Bakos and G. S. Kozak</i>
3,551,201	Method for Coating a Thin, Uniform Thickness Stripe on a Substrate.....	<i>M. A. Marchese and L. G. Taft</i>
3,551,616	Multiple Switch Encoding Device.....	<i>H. Y. Juliusburger, M. Krakinowski and G. R. Stilwell, Jr.</i>
3,551,649	Position Measuring System.....	<i>E. V. Weber</i>
3,551,665	Floating Point Binary Adder Utilizing Completely Sequential Hardware.....	<i>D. M. Powers, R. J. Litwiller and R. E. Goldschmidt</i>
3,551,705	Asymmetric Delay Circuit.....	<i>H. Y. Juliusburger</i>
3,551,707	Coupled Transmission Lines Arrangement.....	<i>D. Seitzer</i>
3,551,761	Integrated Photodiode Array.....	<i>C. E. Ruoff and E. F. Winter</i>
3,551,800	Test Apparatus for Analyzing the Performance Characteristics of Internal Combustion Engine Ignition Systems.....	<i>A. X. Widmer</i>
3,551,836	Differential Amplifier Circuit Adapted for Monolithic Fabrication.....	<i>J. C. Greeson, Jr.</i>
3,551,858	High Current Feed-through Filter System.....	<i>J. R. Cielo</i>
3,551,892	Interaction in a Multi-processing System Utilizing Central Timers.....	<i>G. C. Driscoll, Jr.</i>
3,551,894	Serial Crossbar Busing System.....	<i>M. M. Lehman, J. L. Rosenfield and H. P. Schlaeppli</i>
3,551,895	Look-ahead Branch Detection System.....	<i>G. C. Driscoll, Jr.</i>
3,551,896	Deductive Light Pen Tracking System.....	<i>H. B. Baskin and L. E. Rittenhouse</i>
3,551,897	Method of Controlling Ore Flotation.....	<i>H. R. Cooper</i>
3,551,901	Coupled Magnetic Film Memories.....	<i>G. E. Keeffe</i>
3,551,902	Magnetic Strip Memory.....	<i>J. C. Sagnis, Jr. and P. E. Stuckert</i>